

ABSTRACT OF THE DISCLOSURE

A processing method according to the present invention coats a polar liquid film or forms an inorganic film on a surface of an organic film formed on a substrate as a protective film.

5 The processing method comprises a modifying step of curing an organic film by irradiating the organic film with electron beams by means of an electron-beam irradiation device in a rare gas atmosphere, and an applying step of applying a polar liquid to the modified surface of the organic film or an film forming step

10 of forming an inorganic film on the organic film. The organic film is cured and affinity for the polar liquid or the inorganic film is imparted to the organic film.